

COMPETENCIA: MATRICES

5. DETERMINA EL ORDEN DE LAS MATRICES SIGUIENTES.

$$A = \begin{pmatrix} 1 & 2 \\ -3 & -4 \end{pmatrix} \quad B = \begin{pmatrix} -3 & 5 & 0 \\ 5 & -3 & 4 \\ -1 & -2 & -2 \end{pmatrix} \quad C = \begin{pmatrix} -3 & 5 & -1 & 0 \\ 5 & -3 & -2 & 4 \\ -1 & -2 & 6 & -2 \end{pmatrix} \quad D = \begin{pmatrix} -6 & 9 & -3 & 8 \\ 0 & 7 & -2 & 6 \\ 3 & -5 & 5 & 1 \\ -9 & -7 & -1 & -8 \end{pmatrix} \quad E = \begin{pmatrix} -2 \\ 5 \\ 1 \\ -3 \end{pmatrix}$$

6. DETERMINA LOS VALORES DE LAS INCOGNITAS PARA LOS CUALES SE CUMPLA LA IGUALDAD

$$a) \begin{pmatrix} x+1 & 9 \\ 9 & w^2+2w \end{pmatrix} = \begin{pmatrix} -3 & y-4 \\ z^2 & 15 \end{pmatrix}$$

$$a) x + 1 = -3$$

$$b) 9 = y - 4$$

$$c) z^2 = 9$$

$$d) w^2 + 2w = 15$$

Proverbio 22:17 inclina tu oído y oye las palabras de los sabios, Y aplica tu corazón a mi sabiduría

7. DADAS LAS SIGUIENTES MATRICES.

$A = \begin{pmatrix} 1 & 2 \\ -3 & -4 \end{pmatrix}$	$B = \begin{pmatrix} -4 & 3 \\ 2 & -1 \\ 3 & -5 \end{pmatrix}$	$C = \begin{pmatrix} 4 & -5 & 1 \\ 2 & -2 & 0 \\ 3 & 4 & -1 \end{pmatrix}$	$D = \begin{pmatrix} 3 & 1 \\ 4 & -2 \\ 5 & -3 \end{pmatrix}$
$E = \begin{pmatrix} 4 & 2 \\ 5 & -3 \end{pmatrix}$	$F = \begin{pmatrix} 1 & -2 \\ 4 & -5 \end{pmatrix}$	$G = \begin{pmatrix} -1 & 4 & -5 \\ 2 & -3 & 6 \end{pmatrix}$	$H = \begin{pmatrix} -1 & 2 \\ -2 & 4 \\ 6 & 0 \end{pmatrix}$
$I = \begin{pmatrix} -3 & 5 & 0 \\ 5 & -3 & 4 \\ -1 & -2 & -2 \end{pmatrix}$	$J = \begin{pmatrix} -5 & 4 \\ -3 & 2 \end{pmatrix}$	$K = \begin{pmatrix} -3 & -4 \\ 5 & 6 \end{pmatrix}$	$L = \begin{pmatrix} 1 & 4 & -5 \\ -2 & 0 & -3 \end{pmatrix}$

DETERMINAR:

$H^T \quad H = \begin{pmatrix} -1 & 2 \\ -2 & 4 \\ 6 & 0 \end{pmatrix}$ $H^T = \begin{pmatrix} \quad & \quad & \quad \end{pmatrix}$	$F^T \quad F = \begin{pmatrix} 1 & -2 \\ 4 & -5 \end{pmatrix}$ $F^T = \begin{pmatrix} \quad & \quad \end{pmatrix}$
$4A \quad A = \begin{pmatrix} 1 & 2 \\ -3 & -4 \end{pmatrix}$ $4A = 4 \begin{pmatrix} \quad & \quad \end{pmatrix} \quad 4A = \begin{pmatrix} \quad & \quad \end{pmatrix}$	$\frac{1}{2}F \quad F = \begin{pmatrix} 1 & -2 \\ 4 & -5 \end{pmatrix}$ $\frac{1}{2}F = \frac{1}{2} \begin{pmatrix} \quad & \quad \end{pmatrix} \quad \frac{1}{2}F = \begin{pmatrix} \quad & \quad \end{pmatrix}$
$-B \quad B = \begin{pmatrix} -4 & 3 \\ 2 & -1 \\ 3 & -5 \end{pmatrix}$ $-B = \begin{pmatrix} \quad & \quad \\ \quad & \quad \\ \quad & \quad \end{pmatrix}$	$A + E \quad A = \begin{pmatrix} 1 & 2 \\ -3 & -4 \end{pmatrix} \quad E = \begin{pmatrix} 4 & 2 \\ 5 & -3 \end{pmatrix}$ $A+E = \begin{bmatrix} (\quad) + (\quad) & (\quad) + (\quad) \\ (\quad) + (\quad) & (\quad) + (\quad) \end{bmatrix}$ $A + E = \begin{pmatrix} \quad & \quad \end{pmatrix}$
$B + G^T \quad B = \begin{pmatrix} -4 & 3 \\ 2 & -1 \\ 3 & -5 \end{pmatrix} \quad G = \begin{pmatrix} -1 & 4 & -5 \\ 2 & -3 & 6 \end{pmatrix} \quad G^T = \begin{pmatrix} \quad & \quad \\ \quad & \quad \end{pmatrix}$	

$$\mathbf{B} + \mathbf{G}^T = \begin{pmatrix} \underline{\quad} + (\underline{\quad}) & \underline{\quad} + (\underline{\quad}) \\ \underline{\quad} + (\underline{\quad}) & \underline{\quad} + (\underline{\quad}) \\ \underline{\quad} + (\underline{\quad}) & \underline{\quad} + (\underline{\quad}) \end{pmatrix} \quad \mathbf{B} + \mathbf{G}^T = \begin{pmatrix} \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \end{pmatrix}$$

El verdadero buscador crece y aprende, y descubre que siempre es el principal responsable de lo que sucede (Jorge Bucay)

$$\mathbf{J} - \mathbf{A} \quad \mathbf{D} = \begin{pmatrix} -5 & 4 \\ -3 & 2 \end{pmatrix} \quad \mathbf{A} = \begin{pmatrix} 1 & 2 \\ -3 & -4 \end{pmatrix} \quad -\mathbf{A} = \begin{pmatrix} \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \end{pmatrix}$$

$$\mathbf{J} - \mathbf{A} = \begin{pmatrix} (\quad) + (\quad) & (\quad) + (\quad) \\ (\quad) + (\quad) & (\quad) + (\quad) \end{pmatrix} \quad \mathbf{J} - \mathbf{A} = \begin{pmatrix} (\quad) & (\quad) \\ (\quad) & (\quad) \end{pmatrix}$$

$$\mathbf{G}^T - \mathbf{H} \quad \mathbf{G} = \begin{pmatrix} -1 & 4 & -5 \\ 2 & -3 & 6 \end{pmatrix} \quad \mathbf{H} = \begin{pmatrix} -1 & 2 \\ -2 & 4 \\ 6 & 0 \end{pmatrix} \quad -\mathbf{H} = \begin{pmatrix} \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \end{pmatrix}$$

$$\mathbf{G}^T = \begin{pmatrix} \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \end{pmatrix} \quad \mathbf{G}^T - \mathbf{H} = \begin{pmatrix} \underline{\quad} + (\underline{\quad}) & \underline{\quad} + (\underline{\quad}) \\ \underline{\quad} + (\underline{\quad}) & \underline{\quad} + (\underline{\quad}) \\ \underline{\quad} + (\underline{\quad}) & \underline{\quad} + (\underline{\quad}) \end{pmatrix}$$

$$\mathbf{G}^T - \mathbf{H} = \begin{pmatrix} \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \\ \underline{\quad} & \underline{\quad} \end{pmatrix}$$